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1: Science 2000 Oct 13;290(5490):337-41

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A myosin I isoform in the nucleus.

Pestic-Dragovich L, Stojiljkovic L, Philimonenko AA, Nowak G, Ke Y, Settlage RE, Shabanowitz J, Hunt DF, Hozak P, de Lanerolle P.

Not prior art *P Priority date*

Department of Physiology and Biophysics, University of Illinois at Chicago, Chicago, IL 60612, USA.

A nuclear isoform of myosin I beta that contains a unique 16-amino acid amino-terminal extension has been identified. An affinity-purified antibody to the 16-amino acid peptide demonstrated nuclear staining. Confocal and electron microscopy revealed that nuclear myosin I beta colocalized with RNA polymerase II in an alpha-amanitin- and actinomycin D-sensitive manner. The antibody coimmunoprecipitated RNA polymerase II and blocked *in vitro* RNA synthesis. This isoform of myosin I beta appears to be in a complex with RNA polymerase II and may affect transcription.

PMID: 11030652 [PubMed – indexed for MEDLINE]

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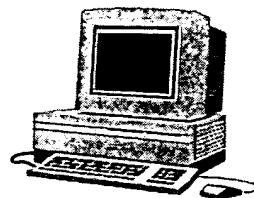
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Mary Hale, Supervisor, 308-4258
CM-1 Room 1E01

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